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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/530,156	08/31/2000	Oliver Hecker	AP9472	3844	
10291	7590 10/21/2002				
RADER, FISHMAN & GRAUER PLLC 39533 WOODWARD AVENUE SUITE 140			EXAMINER		
			BURCH, MELODY M		
BLOOMFIELD HILLS, MI 48304-0610			ART UNIT	PAPER NUMBER	
			3683		
			DATE MAILED: 10/21/2002	DATE MAILED: 10/21/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/530,156	HECKER ET AL.				
		Examiner	Art Unit				
	·	Melody M. Burch	3683				
	- The MAILING DATE of this communication app		orrespondence address				
Period for Reply							
THE M - Extens after S - If the p - If NO p - Failure - Any rep earned	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, the ply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from to the cause the application to become ABANDONED	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status	=						
1)⊠	Responsive to communication(s) filed on 23 J						
2a)⊠	,	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims							
·	Claim(s) <u>1,10,11,13 and 15-21</u> is/are pending i	in the application.					
•	4a) Of the above claim(s) is/are withdraw						
·	6)⊠ Claim(s) <u>1,10,11,13,16-19 and 21</u> is/are rejected.						
· <u> </u>	Claim(s) <u>15 and 20</u> is/are objected to.						
·	8) Claim(s) are subject to restriction and/or election requirement.						
Applicatio	- · · · · · · · · · · · · · · ·	·					
9) The specification is objected to by the Examiner.							
10)□ T	he drawing(s) filed on is/are: a) accep	oted or b)⊡ objected to by the Exar	niner.				
	Applicant may not request that any objection to the		<u> </u>				
11)⊠ T	he proposed drawing correction filed on <u>17 Dec</u>	<u>cember 2001</u> is: a) approved b	o) disapproved by the Examiner				
If approved, corrected drawings are required in reply to this Office action.							
12)□ Ti	he oath or declaration is objected to by the Exa	aminer.					
Priority ur	nder 35 U.S.C. §§ 119 and 120						
13)⊠ <i>A</i>	13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:							
1	1. Certified copies of the priority documents	s have been received.					
2	2. Certified copies of the priority documents	s have been received in Application	on No				
	<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
	cknowledgment is made of a claim for domestic	·					
a) The translation of the foreign language provisional application has been received.							
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(:							
2) D Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	r (PTO-413) Paper No(s) Patent Application (PTO-152)				

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#### **DETAILED ACTION**

# Claim Objections

1. Claim 13 is objected to because of the following informalities: "the momentary value" in the second line from the bottom should be changed to --a momentary value--. Appropriate correction is required.

# Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 20 and 21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Re: claim 20. It is unclear to the Examiner what Applicant intends to claim with the use of the phrase "monotonously declining". By definition the term monotonous refers to something unvarying and both the specification and the drawings (figure 2) teach away from the definition of monotony. Clarification is required otherwise all instances of the phrase should be removed.

Re: claim 21. The phrase "every other input" in the last line of the claim is indefinite. The language reads as if several inputs were previously claimed.

Clarification of the phrase "every other input" is required.

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# Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- 5. Claims 1, 10, 11, 13, 17-19, and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by DE-19501760 (corresponding to U.S. Patent 5727852 to Pueschel et al. for column, line, and figure numbers).

Re: claims 1, 10, 11, 17-19, and 21. DE-19501760 shows in figure 8 a method of operating a brake assist system which comprises a first mode shown from T0 to T1 in which the brake assist system is not actuated, a second mode of operation shown from T1 to T3 and disclosed in col. 9 lines 32-36 in which after recognition of an emergency brake situation (the exceeding of a threshold) a pressure build-up of wheel brakes is generated, and a third mode of operation shown from T3 to the end of the x-axis and disclosed in col. 9 lines 36-40 which is provided for the transition from the second into the first mode of operation, comprising the steps of: monitoring the wheel brake pressure in the third mode of operation via elements 80 and 85 shown in figure 1, determining when the monitored wheel brake pressure is excessively elevated compared to the tandem master cylinder pressure (via the monitoring of the difference between the wheel brake and master brake cylinder pressures by determining when the master brake cylinder pressures drops below a threshold as disclosed in col. 9 lines 35-

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40, and diminishing the amount of excess elevation in the course of time as shown in figure 8 from T3 to the end of the x- axis.

Re: claim 13. Examiner maintains that Pueschel shows throughout the duration of the third mode as shown in figure 8 the sub step of determining a mometary value of the wheel brake pressure by multiplying a momentary value of a time-dependent excess function with the momentary value of the master cylinder pressure. As discussed in the specification of the instant application pwheel(t) = K(t) \* pmc(t) or pwheel(t) / pmc(t) = K(t). Examiner maintains that the ratio of pwheel(t) / pmc(t) is inherently shown throughout the duration of the third mode of operation in Pueschel since at each time in the graph there is a wheel brake pressure value and a master cylinder pressure value. The time dependent excess function simply decreases in the area where the master cylinder pressure increases. Although the time dependent function or ratio decreases during that particular portion of the third mode of operation, the ratio still exists.

### Allowable Subject Matter

6. Claims 15 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Pueschel fails to show the limitation wherein the diminishing step (which as claimed in claim 1 takes place in the third mode of operation) being defined by declining the excess elevation function in time intervals in which the master cylinder pressure is declining, as such time intervals in Pueschel are shown in the second mode.

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7. Claim 16 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims. The third mode of Pueschel (the mode in which the claimed diminishing step takes place) does not include intervals in which the excess elevation function is kept constant as shown in figure 8.

### Response to Arguments

Applicant's arguments filed 7/23/02 have been fully considered but they are not 8. persuasive. Applicant argues that Pueschel does not teach or suggest diminishing the amount of excess elevation by functionally correlating the wheel brake pressure with the monitored master cylinder pressure throughout the duration of the third mode of operation. Pueschel monitors the master cylinder pressure to determine if the master cylinder pressure lies below or exceeds a specified threshold. If the master cylinder pressure exceeds the specified threshold, reentry into the second mode of operation takes place. It should be noted that in the second mode of operation, ABS control is active in which the wheel brake pressure is either decreased, sustained, or increased as discussed in col. 8 lines 45-51. If the master cylinder pressure remains below the specified threshold, the wheel brake pressure continues to decrease throughout the duration of the third mode of operation. As broadly claimed, Pueschel functionally correlates the wheel brake pressure PRZ (whether it will increase, decrease, or remain the same) with the monitored master cylinder pressure PHZ (whether it is above or below a specified threshold) throughout the duration of the third mode of operation.

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#### Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melody M. Burch whose telephone number is 703-306-4618. The examiner can normally be reached on Monday-Friday (7:30 AM-4:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Lavinder can be reached on 703-308-3421. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7687 for regular communications and 703-305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or
 proceeding should be directed to the receptionist whose telephone number is 703-308 1113.

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October 17, 2002

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